

At page 95 lines 3-5:

E 43

- As demonstrated in Table 11, the amino acid profile of the protein system in OXEPA® nutritional product meets or surpasses the standard for high quality protein set by the National Academy of Sciences.

At page 95 line 6:

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- OXEPA® nutritional product is gluten-free.

IN THE CLAIMS

The following is a clean version of the amended claims. Please cancel claims 197, 198, 209 and 245-254, amend the following claims as indicated, and add new claims 285-296. An attachment is provided showing the revisions, captioned "**Version with markings to show changes made.**"

189. (Amended) A method for producing a microbial cell culture with an altered fatty acid profile comprising:

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E 45

culturing a microbial cell comprising a recombinant nucleic acid comprising the sequence depicted in SEQ ID NO: 1 to produce the microbial cell culture, said nucleic acid operably linked to transcription and translation control signals functional in said cell, wherein a polypeptide encoded by said nucleic acid is expressed in sufficient amount in said culture to alter the fatty acid profile.

193. (Amended) A method for producing a microbial cell culture with an altered fatty acid

profile comprising:

*Dkt 717
E 45
Cont*
culturing a microbial cell comprising a recombinant nucleic acid with at least 80% homology to the sequence depicted in SEQ ID NO: 1 to produce the microbial cell culture, said nucleic acid operably linked to transcription and translation control signals functional in said cell, wherein a polypeptide encoded by said nucleic acid forms a monounsaturated bond between carbons 5 and 6 of a fatty acid as numbered from a carboxy terminus thereof, wherein said polypeptide is expressed in sufficient amount in said culture to alter the fatty acid profile.

201. (Amended) A method for producing a microbial cell culture with an altered fatty acid profile comprising:

*Dkt 727
E 46*
culturing a microbial cell comprising a recombinant nucleic acid operably linked to transcription and translation control signals functional in said cell to produce the microbial cell culture, wherein said nucleic acid is a deletion mutant of the nucleic acid depicted in SEQ ID NO: 1, wherein a polypeptide encoded by said nucleic acid forms a monounsaturated bond between carbons 5 and 6 of a fatty acid as numbered from a carboxy terminus thereof, wherein said polypeptide is expressed in sufficient amount in said culture to alter the fatty acid profile.

205. (Amended) A method for producing a microbial cell culture with an altered fatty acid profile comprising:

*Dkt 737
E 47*
culturing a recombinant microbial cell comprising a polypeptide comprising the amino acid sequence depicted in SEQ ID NO:2 to produce the microbial cell culture, wherein said polypeptide is expressed in sufficient amount in said culture to alter the fatty acid profile.

208. (Amended) A method for producing a microbial cell culture with an altered fatty acid profile comprising:

*Dkt 747
E 48*
culturing a recombinant microbial cell comprising a polypeptide with at least 80% homology to the sequence depicted in SEQ ID NO: 2 to produce the microbial cell culture, wherein said polypeptide forms a monounsaturated bond between carbons 5 and 6 of a fatty acid as numbered from a carboxy terminus thereof, wherein said polypeptide is expressed in sufficient amount in said culture to alter the fatty acid profile.

*E 49
Dkt 737*
214. (Amended) A method for producing a microbial cell culture with an altered fatty acid profile comprising:

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Cont
culturing a microbial cell comprising a recombinant nucleic acid to produce the microbial cell culture, wherein said nucleic acid hybridizes to the complement of the sequence depicted in SEQ ID NO: 1 under hybridization conditions suitable for sequencing said complement, said nucleic acid operably linked to transcription and translation control signals functional in said cell, wherein a polypeptide encoded by said nucleic acid forms a monounsaturated bond between carbons 5 and 6 of a fatty acid as numbered from a carboxy terminus thereof, wherein said polypeptide is expressed in sufficient amount in said culture to alter the fatty acid profile.

215. (Amended) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 189.

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225. (Amended) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 193.

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235. (Amended) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 201.

NB 245. (Amended) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 202.

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255. (Amended) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 205.

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265. (Amended) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 208.

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275. (Amended) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 214.

E 55 --285. (New) A microbial cell culture with an altered fatty acid profile produced according to

the method of claim 189.

286. (New) A microbial cell culture with an altered fatty acid profile produced according to the method of claim 193.

287. (New) A microbial cell culture with an altered fatty acid profile produced according to the method of claim 201.

288. (New) A microbial cell culture with an altered fatty acid profile produced according to the method of claim 205.

289. (New) A microbial cell culture with an altered fatty acid profile produced according to the method of claim 208.

290. (New) A microbial cell culture with an altered fatty acid profile produced according to the method of claim 214.

291. (New) A method for producing a microbial cell culture with an altered fatty acid profile comprising:

culturing a microbial cell comprising a recombinant nucleic acid comprising a sequence substantially identical to the sequence depicted in SEQ ID NO: 1 to produce the microbial cell culture, said nucleic acid operably linked to transcription and translation control signals functional in said cell, wherein a polypeptide encoded by said nucleic acid is expressed in sufficient amount in said culture to alter the fatty acid profile.

292. (New) A method for producing oil with an altered fatty acid profile comprising extracting said oil with an altered fatty acid profile from the microbial cell culture produced according to the method of claim 291.

293. (New) A microbial cell culture with an altered fatty acid profile produced according to the method of claim 291.

294. (New) A method for producing a microbial cell culture with an altered fatty acid profile comprising:

culturing a recombinant microbial cell comprising a polypeptide comprising a sequence substantially identical to the amino acid sequence depicted in SEQ ID NO: 2 to produce the microbial cell culture, wherein said polypeptide is expressed in sufficient amount in said culture to alter the fatty acid profile.